Index to Volume XXV, September 1995 to May 1996

Author Index

Baird, Kate. Profiles. M/A 307

Barot, Bal. Term paper: A teaching tool. Letters. S/O 6

Beals, Jacquelyn K. Profiles. N 83

Blumberg, Roger B. Ex libris. Point of View. D/J 184

Bosnoyan, Eddie, and Neil Sabine. Reviewing *The Carolina Anatomy Series.* Instructional Media. F 302

Brunner, Carl E. Reviewing *To Be A Scientist* by Donald Braben. Book Reviews. M/A 374

Bunce, Diane. Profiles. S/O 3

Bunce, Diane M. The quiet revolution in science education—Teaching science the way students learn. SCST. D/J 169

Cain, B. Edward. Reviewing *The Quest for Life in Amber* by George Poinar and Roberta Poinar. Book Reviews. F 240

Caprio, M.W. Oiling the reform movement. The Two-Year College. D/J 188

Clerc, Jeanne. Teaching laboratory safety: A case study. M/A 337

Cohen, Paul and Brenda. The Deutsches Museum in Munich. Finding Science Past Present. N 110

Cohen, Paul and Brenda. The Einstein House in Berne, Switzerland. Finding Science Past and Present. M 440

Cohen, Paul and Brenda. Museo de Storia della Scienza. Finding Science Past and Present. S/O 62

Cohen, Paul and Brenda. The Nederlands Malend Korenmolenmuseum. Finding Science Past and Present. M/A 372

Cole, Harold D. Learning by osmosis. S/O 51

Crandall, G. Douglas. A low-tech visual presentation technique to spruce up your lectures. S/O 56

Curtis, George D. American-educated Chinese students—A question of balance? Letters. M 382

Didion, Catherine Jay. The 1995 Beijing Conference on Women—A participant's report. Women in Science. D/J 181

Didion, Catherine Jay. "From Analysis to Action"—Implications for women and minorities. Women in Science. S/O 65

Didion, Catherine Jay. Motivating women students. Women in Science. M 439

Didion, Catherine Jay. Our biggest challenge now: Taking the wraps off science. Women in Science. M/A 366

Didion, Catherine Jay. Project Kaleidoscope—Helping to make science teaching what it should be. Women in Science. F 294

Dubeck, Leroy W., Suzanne E. Moshier, and Judith E. Boss. Using science fiction films to teach science at the college level. S/O 46

Duch, Barbara J. Problem-based learning in physics: The power of students teaching students. M/A 326

Edmund, Norman W. Refuting the nonexistence of the "scientific method." Letters. N 86

Ehrlich, Robert. Profiles. S/O 3

Eisen, Arri. "Disease of the week" reports: Catalysts for writing and participation in large classes. M/A 331

Eliason, James L. Using paradoxes to teach critical thinking in science. M/A 341

Elsberry, Jeffrey, and Charles Lindsey. Science and math curricula in the twenty-first century. The Two-Year College. M/A 346

Epstein, Jerome. Why do we do this? Letters. M 382

Fenton, M. Brock, Jennifer K. Long, and Lalita Acharya. There are no "right" answers: An approach to teaching the biology of conservation. D/J 211

Fort, Deborah C. Top federal science agencies join other reformers to focus on the vital undergraduate years. Point of View. S/O 26

Fox, Marty. Breaking the genetic code in a letter by Max Delbruck. M/A 324

Fox, Marty, John J. Gaynor, and Judith A. Shillcock. The ammonia lava lamp. Favorite Demonstration. F 286

Francek, Mark. Using campus walks in introductory earth science classes. M 395

Garrison, Steve, and Janet Gregory. Acquiring video images for biology laboratory exercises. D/J 219

Germann, Paul J. Profiles. D/J 163

Gillen, Alan L., and Eugene L. Chiappetta. Using biotechnology laboratories to enhance students' appreciation of DNA science. F 254

Graham, Robert M. Stopping a siphon action by reduction of atmospheric pressure. Favorite Demonstration. S/O 67

Gregory, Eileen. Profiles. F 235

Grismer, Mark E. Education in hydrologic science: Undergraduate program development at the University of California-Davis. F 243

Hall, Donald W. Computer-based animations in large-enrollment lectures: Visual reinforcement of biological concepts. M 421

Hartman, Elliott M. and Nathan Dubowsky. The nature and process of science: A goal-focused approach to teaching science literacy. SCST. N 92

Hauben, Myra, and Geoff Rayner-Canham. The Remsen demonstration: "Nitric acid acts upon copper." Favorite Demonstration. M/A 368

Herreid, Clyde F. Case study teaching in science: A dilemma case on "animal rights." M 413

Hobson, Art. Incorporating scientific methodology into introductory science courses. M/A 313

Hoffmann, Roald, and Brian P. Coppola. Some heretical thoughts on what our students are telling us. M 390

Johnson, Margaret. Preparing future faculty for unfamiliar teaching settings—A process in need of revision. The Two-Year College. S/O 24

Jones, Richard C. Profiles. D/J 163

Juillerat, Florence. Teaching the process of science using risk and folklore as examples. SCST. N 96

Kauffman, George B. Reviewing *Caltech's Chemistry Animation Project.* Instructional Media. M/A 375

Kauffman, George B. Reviewing *Physics Songbag, Chemistry Songbag,* and *Science Songbag.* M 445

Kauffman, George B. and Laurie M. Kauffman. Reviewing *Francis Crick: Beyond the Double Helix.* Instructional Media. S/O 71

Kauffman, George B. and Laurie M. Kauffman. Reviewing *Jane Goodall: A Life in the Wild.* Instructional Media. N 160

Kauffman, George B. and Laurie M. Kauffman. Reviewing *Linus Pauling: A Century of Science and Life.* Instructional Media. S/O 72

Keeports, David. Profiles. M 379

Kerns, Tim. Should we use cooperative learning in college chemistry? Research and Teaching. M 435

Kubanek, Anne-Marie Weidler, and Margaret Waller. Career and family for women scientists. N 126

Lane, Neal. Thin ice over deep water. Point of View. M/A 352

Leamnson, Robert N. Learning science without majoring in it. M/A 334

Leamnson, Robert N. Word problems: A "meme" for our times. Point of View. M 427

Lewis, Ralph W. Teaching science to *all* students—The reasons why. Letters. N 86

Loacker, Georgine, and David Dathe. Reviewing *Problem-Based Learning: How to Gain the Most from PBL* by Donald R. Woods. Book Reviews. S/O 69

Lopez, Ramon E. An interdisciplinary undergraduate space physics course. F 263

Malacinski, George W. and Paul W. Zell. Learning molecular biology means more than memorizing the formula for tryptophan. D/J 198

Maloney, David P. and Arthur W. Friedel. Ranking tasks revisited. D/J 205

Martin, David P. Demonstrating the "greenhouse effect." Favorite Demonstration. D/J 225

Martin, G. Douglas. Cooperative learning in chemistry tutorials. Research and Teaching. S/O 20

Matson, John O. Reviewing *Science as a Way of Knowing: The Foundations of Modern Biology.* Book Reviews. N 125

McDevitt, Eugene. Safety first! Letters. S/O 6

McElhattan, Glenn R. Reviewing *Chemistry Imagined* by Roald Hoffmann and Vivian Torrence. Book Reviews. D/J 173

McIntosh, Bill. The National Science Education Standards as a referent to course revision. SCST. M 442

McIntosh, Bill. Searching for "best practice" in college science teaching. SCST. S/O 15

McIntosh, Bill. The spirit of St. Louis: How SCST can help teachers "make facts live." SCST. F 274

McIntosh, Bill, and Harry Shipman. The power of collaboration. SCST. M/A 364

Micikas, Lynda B. Designing a biology curriculum that promotes scientific literacy. The Two-Year College. M 431

Micikas, Lynda B. Teaching about the nature and processes of science: Ask "why?" before considering "how?" SCST. N 99

Micikas, Lynda B., Rodger W. Bybee, and David A. Hanych. Developing scientific literacy: Leadership by community college faculty. N 113

Moore, Randy, and Iain Miller. How the use of multimedia affects student retention and learning. Research and Teaching. F 289

Morgan, Pamela, Jacque Carter, John Lemons, Owen Grumbling, and Eleanor Saboski. Preliminary assessment of a science learning community for first-year students. Research and Teaching. N 102

Moscovici, Hedy, and Penny J. Gilmer. Testing alternative assessment strategies—the ups and the downs for science-teaching faculty. M/A 391

Moss, Robert. A multimedia computer program to teach statistics in genetics. F 270

Index to Volume XXV, September 1995 to May 1996

Author Index

Baird, Kate. Profiles. M/A 307

Barot, Bal. Term paper: A teaching tool. Letters. S/O 6

Beals, Jacquelyn K. Profiles. N 83

Blumberg, Roger B. Ex libris. Point of View. D/J 184

Bosnoyan, Eddie, and Neil Sabine. Reviewing *The Carolina Anatomy Series.* Instructional Media. F 302

Brunner, Carl E. Reviewing *To Be A Scientist* by Donald Braben. Book Reviews. M/A 374

Bunce, Diane. Profiles. S/O 3

Bunce, Diane M. The quiet revolution in science education—Teaching science the way students learn. SCST. D/J 169

Cain, B. Edward. Reviewing *The Quest for Life in Amber* by George Poinar and Roberta Poinar. Book Reviews. F 240

Caprio, M.W. Oiling the reform movement. The Two-Year College. D/J 188

Clerc, Jeanne. Teaching laboratory safety: A case study. M/A 337

Cohen, Paul and Brenda. The Deutsches Museum in Munich. Finding Science Past Present. N 110

Cohen, Paul and Brenda. The Einstein House in Berne, Switzerland. Finding Science Past and Present. M 440

Cohen, Paul and Brenda. Museo de Storia della Scienza. Finding Science Past and Present. S/O 62

Cohen, Paul and Brenda. The Nederlands Malend Korenmolenmuseum. Finding Science Past and Present. M/A 372

Cole, Harold D. Learning by osmosis. S/O 51

Crandall, G. Douglas. A low-tech visual presentation technique to spruce up your lectures. S/O 56

Curtis, George D. American-educated Chinese students—A question of balance? Letters. M 382

Didion, Catherine Jay. The 1995 Beijing Conference on Women—A participant's report. Women in Science. D/J 181

Didion, Catherine Jay. "From Analysis to Action"—Implications for women and minorities. Women in Science. S/O 65

Didion, Catherine Jay. Motivating women students. Women in Science. M 439

Didion, Catherine Jay. Our biggest challenge now: Taking the wraps off science. Women in Science. M/A 366

Didion, Catherine Jay. Project Kaleidoscope—Helping to make science teaching what it should be. Women in Science. F 294

Dubeck, Leroy W., Suzanne E. Moshier, and Judith E. Boss. Using science fiction films to teach science at the college level. S/O 46

Duch, Barbara J. Problem-based learning in physics: The power of students teaching students. M/A 326

Edmund, Norman W. Refuting the nonexistence of the "scientific method." Letters. N 86

Ehrlich, Robert. Profiles. S/O 3

Eisen, Arri. "Disease of the week" reports: Catalysts for writing and participation in large classes. M/A 331

Eliason, James L. Using paradoxes to teach critical thinking in science. M/A 341

Elsberry, Jeffrey, and Charles Lindsey. Science and math curricula in the twenty-first century. The Two-Year College. M/A 346

Epstein, Jerome. Why do we do this? Letters. M 382

Fenton, M. Brock, Jennifer K. Long, and Lalita Acharya. There are no "right" answers: An approach to teaching the biology of conservation. D/J 211

Fort, Deborah C. Top federal science agencies join other reformers to focus on the vital undergraduate years. Point of View. S/O 26

Fox, Marty. Breaking the genetic code in a letter by Max Delbruck. M/A 324

Fox, Marty, John J. Gaynor, and Judith A. Shillcock. The ammonia lava lamp. Favorite Demonstration. F 286

Francek, Mark. Using campus walks in introductory earth science classes. M 395

Garrison, Steve, and Janet Gregory. Acquiring video images for biology laboratory exercises. D/J 219

Germann, Paul J. Profiles. D/J 163

Gillen, Alan L., and Eugene L. Chiappetta. Using biotechnology laboratories to enhance students' appreciation of DNA science. F 254

Graham, Robert M. Stopping a siphon action by reduction of atmospheric pressure. Favorite Demonstration. S/O 67

Gregory, Eileen. Profiles. F 235

Grismer, Mark E. Education in hydrologic science: Undergraduate program development at the University of California-Davis. F 243

Hall, Donald W. Computer-based animations in large-enrollment lectures: Visual reinforcement of biological concepts. M 421

Hartman, Elliott M. and Nathan Dubowsky. The nature and process of science: A goal-focused approach to teaching science literacy. SCST. N 92

Hauben, Myra, and Geoff Rayner-Canham. The Remsen demonstration: "Nitric acid acts upon copper." Favorite Demonstration. M/A 368

Herreid, Clyde F. Case study teaching in science: A dilemma case on "animal rights." M 413

Hobson, Art. Incorporating scientific methodology into introductory science courses. M/A 313

Hoffmann, Roald, and Brian P. Coppola. Some heretical thoughts on what our students are telling us. M 390

Johnson, Margaret. Preparing future faculty for unfamiliar teaching settings—A process in need of revision. The Two-Year College. S/O 24

Jones, Richard C. Profiles. D/J 163

Juillerat, Florence. Teaching the process of science using risk and folklore as examples. SCST. N 96

Kauffman, George B. Reviewing *Caltech's Chemistry Animation Project.* Instructional Media. M/A 375

Kauffman, George B. Reviewing *Physics Songbag, Chemistry Songbag,* and *Science Songbag.* M 445

Kauffman, George B. and Laurie M. Kauffman. Reviewing *Francis Crick: Beyond the Double Helix.* Instructional Media. S/O 71

Kauffman, George B. and Laurie M. Kauffman. Reviewing *Jane Goodall: A Life in the Wild.* Instructional Media. N 160

Kauffman, George B. and Laurie M. Kauffman. Reviewing *Linus Pauling: A Century of Science and Life.* Instructional Media. S/O 72

Keeports, David. Profiles. M 379

Kerns, Tim. Should we use cooperative learning in college chemistry? Research and Teaching. M 435

Kubanek, Anne-Marie Weidler, and Margaret Waller. Career and family for women scientists. N 126

Lane, Neal. Thin ice over deep water. Point of View. M/A 352

Leamnson, Robert N. Learning science without majoring in it. M/A 334

Leamnson, Robert N. Word problems: A "meme" for our times. Point of View. M 427

Lewis, Ralph W. Teaching science to *all* students—The reasons why. Letters. N 86

Loacker, Georgine, and David Dathe. Reviewing *Problem-Based Learning: How to Gain the Most from PBL* by Donald R. Woods. Book Reviews. S/O 69

Lopez, Ramon E. An interdisciplinary undergraduate space physics course. F 263

Malacinski, George W. and Paul W. Zell. Learning molecular biology means more than memorizing the formula for tryptophan. D/J 198

Maloney, David P. and Arthur W. Friedel. Ranking tasks revisited. D/J 205

Martin, David P. Demonstrating the "greenhouse effect." Favorite Demonstration. D/J 225

Martin, G. Douglas. Cooperative learning in chemistry tutorials. Research and Teaching. S/O 20

Matson, John O. Reviewing *Science as a Way of Knowing: The Foundations of Modern Biology.* Book Reviews. N 125

McDevitt, Eugene. Safety first! Letters. S/O 6

McElhattan, Glenn R. Reviewing *Chemistry Imagined* by Roald Hoffmann and Vivian Torrence. Book Reviews. D/J 173

McIntosh, Bill. The National Science Education Standards as a referent to course revision. SCST. M 442

McIntosh, Bill. Searching for "best practice" in college science teaching. SCST. S/O 15

McIntosh, Bill. The spirit of St. Louis: How SCST can help teachers "make facts live." SCST. F 274

McIntosh, Bill, and Harry Shipman. The power of collaboration. SCST. M/A 364

Micikas, Lynda B. Designing a biology curriculum that promotes scientific literacy. The Two-Year College. M 431

Micikas, Lynda B. Teaching about the nature and processes of science: Ask "why?" before considering "how?" SCST. N 99

Micikas, Lynda B., Rodger W. Bybee, and David A. Hanych. Developing scientific literacy: Leadership by community college faculty. N 113

Moore, Randy, and Iain Miller. How the use of multimedia affects student retention and learning. Research and Teaching. F 289

Morgan, Pamela, Jacque Carter, John Lemons, Owen Grumbling, and Eleanor Saboski. Preliminary assessment of a science learning community for first-year students. Research and Teaching. N 102

Moscovici, Hedy, and Penny J. Gilmer. Testing alternative assessment strategies—the ups and the downs for science-teaching faculty. M/A 391

Moss, Robert. A multimedia computer program to teach statistics in genetics. F 270

Nakhleh, Mary B., Diane M. Bunce, and A. Truman Schwartz. Chemistry in Context: Student opinions of a new curriculum. Research and Teaching. D/J 174
Niaz, Mansoor. How students circumvent problem-solving strategies that require greater cognitive complexity. Research and Teaching. M/A 361
Paldy, Lester G. Another ordinary morning at *JCST*. Editorial. N 84
Paldy, Lester G. Edging into the future, electronically. Editorial. M 380
Paldy, Lester G. Industries, national laboratories, and universities: Seeking technological solutions to environmental problems. Editorial. S/O 4
Paldy, Lester G. Science teachers and United States—China diplomacy. Editorial. F 236
Peters, E. Kirsten. Radical subjectivism in university life. Point of View. F 284
Pimple, Kenneth D. Teaching research ethics: A workshop for graduate science faculty. D/J 203
Robinson, Beatrice B. and William J. Gottstein. Strengthening undergraduate science education as resources diminish. F 260
Rosenberg, Fred. Reviewing *Rethinking Science as a Career* by Sheila Tobias, Daryl E. Chubin, and Kevin Aylesworth. Book Reviews. M/A 374
Russo, Ruth. *Pharmaka* and chemistry—Old ideas meet new. Point of View. M/A 358
Schamel, Douglas L. Profiles. M/A 307
Sears, Nedra. Profiles. M 379
Shamos, Morris H. A counter "point of view." Point of View. S/O 30
Shaw, Roosevelt. Beginning freshman chemistry on a historical note. Letters. N 88
Shmaefsky, Brian R., David Barnes, and Chris Martin. Demonstrating the principles of column chromatography. Favorite Demonstration. N 150
Slezak, J.A. Creating exciting science and recruiting science students. Letters. N 86
Strauss, Michael. Mistaking the map for the territory. M 408
Stukus, Philip, and John E. Lennox. Use of an investigative semester-length laboratory project in an introductory microbiology course. N 135
Swab, Janice Coffey. Darwin revisited—Putting things right! Letters. N 86
Swinehart, James H. and Gary Mort. Bringing environmental problems into the science classroom. S/O 58
Switzer, Paul. Campus field trips: An effective supplement to classroom instruction. N 140
Terry, Colin. Not quite a workshop, no longer a lecture. The Two-Year College. F 297
Tichenor, Linda, and Joseph P. Kakareka. An interdisciplinary teaching approach integrating cell biology and biochemistry. N 144
Uritam, Rein. Reviewing *Physics for the Rest of Us* by Roger S. Jones. Book Reviews. N 124
Vergino, Eileen S. Educational opportunities at Lawrence Livermore National Laboratory. S/O 41
Weisgerber, Robert A. Profiles. N 83
Wheeler, Gerald F. The Standards are Coming! Are We Ready? Guest editorial. M/A 308
Whitaker, Robert J. Reviewing *Six Easy Pieces* by Richard P. Feynman. Book Reviews. M 444
Wilcoxson, Catherine. Profiles. F 235
Winter, Stephen S. Reviewing *In the Name of Science* by F. Barbara Orlans. Book Reviews. D/J 172
Woods, Donald R. Problems, assessment, and Jungian typology. PS Corner. F 300
Woods, Donald R. Teaching and learning: What can research tell us? PS Corner. D/J 229
Yochum, Susan, and Kathryn Rother. Tohono Chul Park in Tucson, Arizona. Finding Science Past and Present. F 276
Zippi, Elizabeth M. and Jamie Deneris. Biotechnology at California's Vista College. Letters. N 86

Subject Index

Assessment
Moscovici, Hedy, and Penny J. Gilmer. Testing alternative assessment strategies—the ups and the downs for science-teaching faculty. M/A 391

Biology
Bosnoyan, Eddie, and Neil Sabine. Reviewing *The Carolina Anatomy Series*. Instructional Media. F 302
Cole, Harold D. Learning by osmosis. S/O 51
Fox, Marty, John J. Gaynor, and Judith A. Shillcock. The ammonia lava lamp. Favorite Demonstration. F 286
Stukus, Philip, and John E. Lennox. Use of an investigative semester-length laboratory project in an introductory microbiology course. N 135

Bombers, Mad
Paldy, Lester G. Another ordinary morning at *JCST*. Editorial. N 84

Careers in Science
Rosenberg, Fred. Reviewing *Rethinking Science as a Career* by Sheila Tobias, Daryl E. Chubin, and Kevin Aylesworth. Book Reviews. M/A 374

Chemistry
Hauben, Myra, and Geoff Rayner-Canham. The Remsen demonstration: "Nitric acid acts upon copper." Favorite Demonstration. M/A 368
Kauffman, George B. Reviewing *Caltech's Chemistry Animation Project*. Instructional Media. M/A 375
Russo, Ruth. *Pharmaka* and chemistry—Old ideas meet new. Point of View. M/A 358
Shmaefsky, Brian R., David Barnes, and Chris Martin. Demonstrating the principles of column chromatography. Favorite Demonstration. N 150

Classroom Techniques
Kauffman, George B. Reviewing *Physics Songbag, Chemistry Songbag,* and *Science Songbag*. M 445
Kerns, Tim. Should we use cooperative learning in college chemistry? Research and Teaching. M 435
Malacinski, George W. and Paul W. Zell. Learning molecular biology means more than memorizing the formula for tryptophan. D/J 198
Martin, G. Douglas. Cooperative learning in chemistry tutorials. Research and Teaching. S/O 20
McIntosh, Bill. Searching for "best practice" in college science teaching. SCST. S/O 15

Community/Government/Industry Partnerships
Robinson, Beatrice B. and William J. Gottstein. Strengthening undergraduate science education as resources diminish. F 260
Slezak, J.A. Creating exciting science and recruiting science students. Letters. N 86
Vergino, Eileen S. Educational opportunities at Lawrence Livermore National Laboratory. S/O 41

Computers
Blumberg, Roger B. Ex libris. Point of View. D/J 184
Garrison, Steve, and Janet Gregory. Acquiring video images for biology laboratory exercises. D/J 219
Paldy, Lester G. Edging into the future, electronically. Editorial. M 380

Curriculum Design
Bunce, Diane M. The quiet revolution in science education—Teaching science the way students learn. SCST. D/J 169
Caprio, M.W. Oiling the reform movement. The Two-Year College. D/J 188
Elsberry, Jeffrey, and Charles Lindsey. Science and math curricula in the twenty-first century. The Two-Year College. M/A 346
Nakhleh, Mary B., Diane M. Bunce, and A. Truman Schwartz. Chemistry in Context: Student opinions of a new curriculum. Research and Teaching. D/J 174
Zippi, Elizabeth M. and Jamie Deneris. Biotechnology at California's Vista College. Letters. N 86

Earth Sciences
Francek, Mark. Using campus walks in introductory earth science classes. M 395
Grismer, Mark E. Education in hydrologic science: Undergraduate program development at the University of California-Davis. F 243

Environment
Fenton, M. Brock, Jennifer K. Long, and Lalita Acharya. There are no "right" answers: An approach to teaching the biology of conservation. D/J 211
Martin, David P. Demonstrating the "greenhouse effect." Favorite Demonstration. D/J 225
Swinehart, James H. and Gary Mort. Bringing environmental problems into the science classroom. S/O 58

Ethics
Herreid, Clyde F. Case study teaching in science: A dilemma case on "animal rights." M 413
Pimple, Kenneth D. Teaching research ethics: A workshop for graduate science faculty. D/J 203
Winter, Stephen S. Reviewing *In the Name of Science* by F. Barbara Orlans. Book Reviews. D/J 172

Evolution
Swab, Janice Coffey. Darwin revisited—Putting things right! Letters. N 86

Field Trips
Switzer, Paul. Campus field trips: An effective supplement to classroom instruction. N 140

Genetics
Cain, B. Edward. Reviewing *The Quest for Life in Amber* by George Poinar and Roberta Poinar. Book Reviews. F 240
Fox, Marty. Breaking the genetic code in a letter by Max Delbruck. M/A 324
Gillen, Alan L., and Eugene L. Chiappetta. Using biotechnology laboratories to enhance students' appreciation of DNA science. F 254
Moss, Robert. A multimedia computer program to teach statistics in genetics. F 270

History of Science
Kauffman, George B. and Laurie M. Kauffman. Re-

viewing *Francis Crick: Beyond the Double Helix.* Instructional Media. S/O 71
Kauffman, George B. and Laurie M. Kauffman. Reviewing *Jane Goodall: A Life in the Wild.* Instructional Media. N 160
Kauffman, George B. and Laurie M. Kauffman. Reviewing *Linus Pauling: A Century of Science and Life.* Instructional Media. S/O 72
Shaw, Roosevelt. Beginning freshman chemistry on a historical note. Letters. N 88

Interdisciplinary Studies
Leamnson, Robert N. Learning science without majoring in it. M/A 334
Tichenor, Linda, and Joseph P. Kakareka. An interdisciplinary teaching approach integrating cell biology and biochemistry. N 144

International Affairs
Curtis, George D. American-educated Chinese students—A question of balance? Letters. M 382
Didion, Catherine Jay. The 1995 Beijing Conference on Women—A participant's report. Women in Science. D/J 181
Paldy, Lester G. Science teachers and United States—China diplomacy. Editorial. F 236

Introductory Courses
Dubeck, Leroy W., Suzanne E. Moshier, and Judith E. Boss. Using science fiction films to teach science at the college level. S/O 46
Hartman, Elliott M. and Nathan Dubowsky. The nature and process of science: A goal-focused approach to teaching science literacy. SCST. N 92
Hobson, Art. Incorporating scientific methodology into introductory science courses. M/A 313
Juillerat, Florence. Teaching the process of science using risk and folklore as examples. SCST. N 96
Morgan, Pamela, Jacque Carter, John Lemons, Owen Grumbling, and Eleanor Saboski. Preliminary assessment of a science learning community for first-year students. Research and Teaching. N 102

Literacy, Scientific
Edmund, Norman W. Refuting the nonexistence of the "scientific method." Letters. N 86
Epstein, Jerome. Why do we do this? Letters. M 382
Fort, Deborah C. Top federal science agencies join other reformers to focus on the vital undergraduate years. Point of View. S/O 26
Lewis, Ralph W. Teaching science to *all* students—The reasons why. Letters. N 86
Micikas, Lynda B. Designing a biology curriculum that promotes scientific literacy. The Two-Year College. M 431
Micikas, Lynda B., Rodger W. Bybee, and David A. Hanych. Developing scientific literacy: Leadership by community college faculty. N 113
Shamos, Morris H. A counter "point of view." Point of View. S/O 30

Multimedia
Crandall, G. Douglas. A low-tech visual presentation technique to spruce up your lectures. S/O 56
Hall, Donald W. Computer-based animations in large-enrollment lectures: Visual reinforcement of biological concepts. M 421
Moore, Randy, and Iain Miller. How the use of multimedia affects student retention and learning. Research and Teaching. F 289

Peer Collaboration
Didion, Catherine Jay. Project Kaleidoscope—Helping to make science teaching what it should be. Women in Science. F 294
McIntosh, Bill. The spirit of St. Louis: How SCST can help teachers "make facts live." SCST. F 274
McIntosh, Bill, and Harry Shipman. The power of collaboration. SCST. M/A 364

Philosophy of Science
Brunner, Carl E. Reviewing *To Be A Scientist* by Donald Braben. Book Reviews. M/A 374
Hoffmann, Roald, and Brian P. Coppola. Some heretical thoughts on what our students are telling us. M 390
Matson, John O. Reviewing *Science as a Way of Knowing: The Foundations of Modern Biology.* Book Reviews. N 125
McElhattan, Glenn R. Reviewing *Chemistry Imagined* by Roald Hoffmann and Vivian Torrence. Book Reviews. D/J 173
Micikas, Lynda B. Teaching about the nature and processes of science: Ask "why?" before considering "how?" SCST. N 99
Peters, E. Kirsten. Radical subjectivism in university life. Point of View. F 284
Strauss, Michael J. Mistaking the map for the territory. M 408

Physics
Duch, Barbara J. Problem-based learning in physics: The power of students teaching students. M/A 326.
Graham, Robert M. Stopping a siphon action by reduction of atmospheric pressure. Favorite Demonstration. S/O 67
Lopez, Ramon E. An interdisciplinary undergraduate space physics course. F 263
Terry, Colin. Not quite a workshop, no longer a lecture. The Two-Year College. F 297
Uritam, Rein. Reviewing *Physics for the Rest of Us* by Roger S. Jones. Book Reviews. N 124
Whitaker, Robert J. Reviewing *Six Easy Pieces* by Richard P. Feynman. Book Reviews. M 444

Problem Solving
Eliason, James L. Using paradoxes to teach critical thinking in science. M/A 341
Leamnson, Robert N. Word problems: A "meme" for our times. Point of View. M 427
Loacker, Georgine, and David Dathe. Reviewing *Problem-Based Learning: How to Gain the Most from PBL* by Donald R. Woods. Book Reviews. S/O 69
Maloney, David P. and Arthur W. Friedel. Ranking tasks revisited. D/J 205
Niaz, Mansoor. How students circumvent problem-solving strategies that require greater cognitive complexity. Research and Teaching. M/A 361
Woods, Donald R. Problems, assessment, and Jungian typology. PS Corner. F 300
Woods, Donald R. Teaching and learning: What can research tell us? PS Corner. D/J 229

Safety
Clerc, Jeanne. Teaching laboratory safety: A case study. M/A 337
McDevitt, Eugene. Safety first! Letters. S/O 6

Science and Society
Didion, Catherine Jay. Our biggest challenge now: Taking the wraps off science. Women in Science. M/A 366
Lane, Neal. Thin ice over deep water. Point of View. M/A 352
Paldy, Lester G. Industries, national laboratories, and universities: Seeking technological solutions to environmental problems. Editorial. S/O 4
Paldy, Lester G. The unsent letter. Editorial. D/J 165

Standards
McIntosh, Bill. The National Science Education Standards as a referent to course revision. SCST. M 442
Wheeler, Gerald F. The Standards are Coming! Are We Ready? Guest editorial. M/A 308

Teacher Training
Johnson, Margaret. Preparing future faculty for unfamiliar teaching settings—A process in need of revision. The Two-Year College. S/O 24

Travel
Cohen, Paul and Brenda. The Deutsches Museum in Munich. Finding Science Past and Present. N 110
Cohen, Paul and Brenda. The Einstein House in Berne, Switzerland. Finding Science Past and Present. M 440
Cohen, Paul and Brenda. Museo de Storia della Scienza. Finding Science Past and Present. S/O 62
Cohen, Paul and Brenda. The Nederlands Malend Korenmolenmuseum. Finding Science Past and Present. M/A 372
Yochum, Susan, and Kathryn Rother. Tohono Chul Park in Tucson, Arizona. Finding Science Past and Present. F 276

Women in Science
Didion, Catherine Jay. "From Analysis to Action"—Implications for women and minorities. Women in Science. S/O 65
Didion, Catherine Jay. Motivating women students. Women in Science. M 439
Kubanek, Anne-Marie Weidler, and Margaret Waller. Career and family for women scientists. N 126

Writing, Scientific
Barot, Bal. Term paper: A teaching tool. Letters. S/O 6
Eisen, Arri. "Disease of the week" reports: Catalysts for writing and participation in large classes. M/A 331

INDEX OF ADVERTISERS

BIOPAC Systems, Inc. 381
Burleigh Instruments, Inc. ..... Cover III
Carolina Biological Supply Co. ..... Cover IV
Education Group, The 419
JCE: Software 388
Ohaus Corporation ..... Cover II
Ohaus-NSTA Awards Program 385